A PRESENTATION

for

The U. S. Army Corps of Engineers

CELEBRATE SAFETY PROGRAM

"LUCKY DOG SAFETY AWARD"

3rd Quarter - FY03

Safety Topic: "COFFERDAM FLOOD"

by

OVERSTREET

Engineering & Construction, Inc.

Pensacola, Florida

The Project:

Generation Recovery & Debris Diversion Gate

USACE Contract No.: DACW01-01-C-0022

Millers Ferry Power Project, Alabama

THE

Millers Ferry Lock / Dam / Powerhouse Millers Ferry, Alabama

PROJECT OBJECTIVES

- TO INSTALL A TAINTER GATE AND CONCRETE CHUTE NEXT TO POWERHOUSE STRUCTURE
- TO DIVERT FLOATING DEBRIS FROM RIVER, AROUND POWERHOUSE INTAKE AND DOWN CONCRETE CHUTE TO THE TAILRACE OF POWERHOUSE
- TO INCREASE POWER GENERATION EFFECIENCY AND REDUCE DEBRIS REMOVAL MAINTAINANCE FOR The Army Corp. of Engineer POWERHOUSE PERSONNEL

A DIFFICULT PROJECT

- FABRICATE and INSTALL A LARGE COFFERDAM STRUCTURE FIRST
- INSTALL THE COFFERDAM STRUCTURE ON THE TOP OF AN UNDERWATER RETAINING WALL NEAR THE POWERHOUSE INTAKE
- EXECUTE NUMEROUS PRECISION and HEAVY CRANE LIFTS
- WORKING IN TIGHTLY CONGESTED AREAS
- WORK INCLUDES SIMULTANIOUS UNDERWATER CONSTRUCTION and DIVING ACTIVITIES

THE COFFERDAM FABRICATION

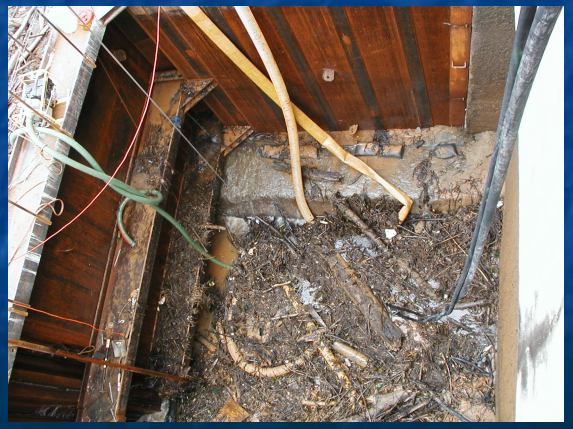
MOVING STRUCTURE INTO POSITION

LIFTING THE COFFERDAM INTO POSITION

COFFERDAM SHEETPILING INSTALLATION

COFFERDAM DE-WATERING ACTIVITIES BEGIN !

Additional Bracing on Structure



INCIDENT: WATER BEGINS PIPING UNDER THE STRUCTURE AND SUDDENLY, THE

COFFERDAM FLOODS

ARE ALL WORKERS SAFE ??

ALL WORKERS ARE **SAFE** !!

WHY ?

- PRE-PLANNING SAFETY CONTROLS FOR DANGEROUS WORK ACTIVITIES (DAILY)
- PROVIDING MEANS OF EGRESS FOR WORKERS IN THE DANGER ZONE
- EMPLOY THE USE OF A SPOTTER FOR ALL WORK ACTIVITIES IN THIS LOCATION
- KEEPING ONLY THE MINIMUM AMOUNT OF PERSONNEL IN THE DANGER ZONE TO COMPLETE THE WORK
- FAST THINKING EMPLOYEES, A QUICK RESPONSE and GOOD LUCK

A LUCKY DOG

THIS TIME...??

YES...!!

BUT

WHAT ABOUT THE NEXT TIME...??

ALWAYS

THINK

AND

WORK SAFELY

AND **NEVER** LET YOUR GUARD DOWN...!!

Thank You
Everyone

The End